

APPLICANT'S ART CITATION <small>(Use several sheets if necessary)</small>	Application	10/686,191	Office File No.	P/3474-86
	Applicant	David L. Hagen et al.		
	Filing Date	October 15, 2003	Group Art Unit	3755 1723

U.S. PATENT DOCUMENTS (not submitted for applications filed after 6/30/03)

Examiner Initial	Document Number	Date MM-YYYY	Name	Class	Sub-class	Filing Date If Appropriate
/T.S./	US-4,478,553	10-1984	LEIBOWITZ ET AL.	416	97	
	US-4,714,414	12-1987	MILLER	418	11	
	US-5,722,241	03-1998	HUBER	60	728	
	US-5,930,990	08-1999	ZACHERY ET AL.	60	39.53	
	US-6,263,661	07-2001	VAN DER BURGT ET AL.	60	39.17	
	US-6,398,518	06-2002	INGISTOV	417	244	
/T.S./	US-6,453,659	09-2002	VAN LIERE ET AL.	60	39.53	
	US-					
	US-					

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM-YYYY	Country	Class	Sub-class	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner /Tony Soohoo/ Date Considered 11/28/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

FORM PTO-1449 O I P E NOV 05 2004 PATENT & TRADEMARK OFFICE		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.091CP2	APPLICATION NO. 10/686,191
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT David L. Hagen et al.		
		FILING DATE October 15, 2003	GROUP 2460	1797

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
/T.S./	1 4,273,527	06/16/81	Meenan			06/1981
	2 5,690,039	11/25/97	Monro et al.			11/1997
	3 6,158,962	12/12/00	Lee et al.			12/2000
	4 6,183,240	02/06/01	Dobbeling et al.			02/2001

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/T.S./	5	Agren, N., "Advanced Gas Turbine Cycles with Water-Air Mixtures as Working Fluid", Doctoral Thesis, Deparmeny of Chemical Engineering and Technology, Energy Processes, Royal Institute of Technology, Stockholm, 2000.
	6	Agren et al., "First Experiments on an Evaporative Gas Turbine Pilot Power Plant – Water Circuit Chemistry and Humidification Evaluation", The American Society of Mechanical Engineers, 2000.
	7	Aagren et al., "New Humidification Concept for Evaporative Gas Turbine Cycles Applied to a Modern Aeroderivative Gas Turbine", Proceedings for the ASME, AES-Vol. 37, 1997.
	8	Lindquist, T., "Evaluation, Experience and Potential fo Gas Turbine Based Cycles with Humidification", Doctoral Thesis, Division of Therrmal Power Engineering, Dept. of Heat and Power Engineering, Lund University, Sweden, Sept. 6, 2002, p. 85.

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EXAMINER	/Tony Soohoo/	DATE CONSIDERED	11/28/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Multiple sheets used when necessary)

SWEET 1 OF 1

Application No.	10/686,191
Filing Date	October 15, 2003
First Named Inventor	David L. Hagen et al.
Art Unit	3753 1797
Examiner	Unknown Sooho
Attorney Docket No.	VAST-001CP2

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U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS				
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-YYYY	Name of Patentee or Applicant
/T.S./	1.	4,259,837	04/1981	Russell et al.
	2.	5,255,505	10/1993	Cloyd et al.
	3.	5,357,741	10/1994	Tabasco et al.
	4.	5,617,719	04/1997	Ginter
	5.	5,784,875	07/1998	Statler
/I.S./	6.	6,284,666	09/2001	Naeem et al.

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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cita No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹

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Examiner Signature /Tony Soohoo/ **Date Considered** 11/28/2007
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USPTO-1440 JUN 17 2004 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>O P E</i> <i>J C</i> P A T E N T & T R A D E M A R K S (USE SEVERAL SHEETS IF NECESSARY)		ATTY. DOCKET NO. VAST:001CP2	APPLICATION NO. 10/688,191 <i>46/6</i>
		APPLICANT David L. Hagen et al.	
		FILING DATE October 15, 2003	GROUP 1797 7733

U.S. PATENT DOCUMENTS

* Century year is 19 except where re-written

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE <i>(IF APPROPRIATE)</i>
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	2,869,324	01/20/59	Foote			
	3,238,719	03/08/66	Harslem			
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	4,509,324	04/09/85	Urbach et al.			
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/686,191
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT David L. Hagen et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE October 15, 2003	GROUP 3753 (197)

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/T.S./	28 6,293,086	09/25/01	Reynolds			09/2001
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/T.S./	32 DE 37 28 557 A	03/09/89	Germany			
	33 EP 0444013 A1	08/28/91	Europe			
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	37 EP 1319435 A2	06/18/03	Europe			
	38 FR 2 043 074	02/12/71	France			
	39 GB 1 142 956	02/12/69	United Kingdom			
	40 WO 9510009	04/13/95	PCT			
	41 WO 0128648	04/26/01	PCT			04/2001
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/T.S./	44	Blanco et al., "Water Recovery Systems for Steam Injected Gas Turbines: An Economic Analysis", Proceedings of ECOS 2002, July 3-5, Berlin, Germany.
	45	Bathie, W., "Fundamentals of Gas Turbines", 1996, p 139.
	46	Boyce, M., "Handbook for Cogeneration and Combine Cycle Power Plants", 2002, p 62.
	47	Granovski et al., "Simulation of Temperature Field Redistribution through multistage cooled turbines", Paper 2001-GT-0576, ASME Turbo Expo. 2001 June 4-7, 2001, New Orleans.

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/586,191
		APPLICANT David L. Hagen et al.	
		FILING DATE October 15, 2003	GROUP 3733 1797

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T.S.	48	Lefebvre, A., "Gas Turbine Combustion", 1998, section 5-7-3 (pp.150-151); p337 (on CO vs. NOx).	
	49	Malecki et al., "Application of an Advanced CFD-Based Analysis System to the PW600 Combustor to Optimize Exit Temperature Distribution – Part 1: Description and Validation of the Analysis Tool", 2001.	
	50	Pavri et al., "GE Power Systems; Gas Turbine Emissions and Control", 2001, p 18.	
✓	51	Travers, A., "Thermoeconomic Analysis of STIG, RWO and HAT Cycles with Carbon Dioxide (CO ₂) Emission Penalty", Masters Thesis of Thermochemical Power Group of the University of Genoa Faculty of Engineering, 2000.	

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